

## PATENT CLAIMS

1. A method in the transmission in a data communications network, particularly Internet, of arbitrarily formatted files comprising one or more different data types, between a sender comprising a data-processing device  
5 connected to the data communications network, wherein the sender represents an information provider, and one or more receivers with respective data-processing devices connected with the data communications network, wherein each receiver represents a user, wherein a dedicated server provided in or assigned to the data  
10 communications network is used with the method, wherein files which shall be transmitted are stored in a database at the sender or in a database accessible from the sender and which for the transmission that substantially takes place transparently for both sender and receiver, are downloaded to the data-processing device of the sender, and wherein the  
15 method is characterized by processing a file specifically for one or more users and/or one or more applications under determined conditions, the specific processing taking place consecutively in the server during the transmission and/or consecutively in the receiver's data-processing device as the file is received and/or in the receiver's data-processing device after  
20 the file has been received, and performing the processing with software which is stored in one or more of the following: the sender, the server or the receiver, and as required is transmitted before or in phase with the processing to a an actual processing location.
2. A method according to claim 1,  
25 characterized by comprising consecutive or approximately simultaneous and/or or interfoliated realized steps for
- a) compression-coding the file which shall be transmitted with a proprietary data compression procedure or a general loss-free data compression procedure,

b) dividing the compression-coded file in packets,  
c) transmitting the packet-divided compression-coded file to the  
dedicated server together with receiver addresses,  
d) providing the packets with receiver address, and  
5 e) transmitting the compression-coded file to one or more receivers  
according to the receiver addresses of the packets, as well as a further  
step, for  
f) decoding the received file at the receiver according to the data  
compression procedure or procedures already used for the compression  
coding.

10 3. A method in transmission in a data communications network,  
particularly Internet, of arbitrarily formatted files comprising one or more  
different data types, between a sender comprising a data-processing device  
connected to the data communications network, wherein the sender  
15 represents an information provider, and one or more receivers with  
respective data-processing devices connected with the data  
communications network, wherein each receiver represents a user,  
wherein a dedicated server provided in or assigned to the data  
communications network is used with the method, wherein files which  
20 shall be transmitted are stored in a database at the sender or in a database  
accessible from the sender and which for the transmission that  
substantially takes place transparently for both sender and receiver, are  
downloaded to the data-processing device of the sender, and wherein the  
method is characterized by comprising consecutive or approximately  
25 simultaneous and/or interfoliated realized steps for

a) compression-coding the file which shall be transmitted with a  
proprietary data compression procedure or a general loss-free data  
compression procedure,

b) dividing the compression-coded file in packets,

c) transmitting the packet-divided compression-coded file to the dedicated server together with receiver addresses,

d) providing the packets with receiver address, and

5 e) transmitting the compression-coded file to one or more receivers according to the receiver addresses of the packets, and as well as further steps for

10 f) decoding the received file at the receiver according to the data compression procedure or procedures already used for the compression coding and additionally processing the files specifically for one or more uses and/or for one or more applications under determined conditions, the specific processing taking place consecutively in the server during the transmission and/or consecutively in the receiver's data-processing device as the file is received and/or in the receiver's data processing-device after the file has been received, and performing the processing with software  
15 which is stored in one or more of the following: the sender, the server or the receiver and which as required is transmitted before or in phase with the processing to an actual processing location.

4. A method according to claim 3,

20 characterized by the sender simultaneously with the initialization of the transmission of during or after the transmission to the server sending a message to the receiver with a resource address and an access code and receiving a confirmation from the server when the latter has received the file and the confirmation from the receiver when the latter has received the file and downloaded it to its data-processing device.

25 5. A method according to claim 3, wherein the arbitrarily formatted file comprises one or more of the following data types, viz. image data, alphanumeric data, graphic data and fonts,

characterized by using the proprietary data compression procedure for compressing image data, and by using the general loss-free

compression procedure substantially for compression of alphanumeric data, graphics data and fonts.

6. A method according to claim 3,

characterized by storing software for data compression coding and decoding in the server and downloading said software automatically respectively to the data-processing device of the sender for coding the file when the transmission is initialized and to the data-processing device of the receiver for decoding the file when it is received.

7. A method according to claim 3,

characterized by the packet division taking place dependent on the data type, such that each packet comprises a determined data type.

8. A method according to claim 3,

characterized by the specific processing taking place in the server after a preceding decoding of the file in the server by means of the software for the data compression coding, the software for the processing either being stored at the sender and/or at the receiver and being transmitted to the data-processing device of the server when the processing shall take place, or beforehand stored in the data-processing device of the server, and after the specific processing again compression-coding the file with software stored in the server for transmission to the receiver, the server on the basis of the receiver address checking whether processing conditions are present.

9. A method according to claim 8,

characterized by the processing conditions assigned to a determined receiver address being stored in the server together with software for the processing and being accessed by the server on the basis of the receiver address.

10. A method according to claim 8,

characterized by performing the specific processing on one or more

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determined data types such that only packets comprising the determined data type are decoded before the processing and coded anew after the processing has terminated.

11. A method according to claim 3,

5 characterized by the decoding of the file at the receiver taking place consecutively as the file is received.

12. A method according to claim 11,

10 characterized by the specific processing taking place consecutively in the data-processing device of the receiver before and/or after the coding of the file which is received, the software for the processing either being stored at the receiver and/or in the sender and/or in the server and being transmitted to the data-processing device or the receiver when processing shall take place or before beforehand being stored in the data-processing device of the receiver.

15 13. A method according to claim 3,

characterized by storing the file as it is received in the data-processing device or receiver, and then decoding the file by the receiver at a later suitably selected time.

14. A method according to claim 13,

20 characterized by the specific processing of the stored file taking place in the data-processing device of the receiver before and/or after the decoding of the file, the software for the processing either being stored at the sender and/or in the server and transmitted to the data-processing device of the receiver when processing shall take place or beforehand entered in the data-processing device of the receiver.

25 15. A method according to claim 3,

characterized by the dedicated server being implemented on a general network server at the sender.

16. A method according to claim 3,  
characterized in that user names, receiver addresses, files and the  
given processing conditions assigned to user names or receiver addresses  
temporarily or permanently are stored in a database provided in the server.